

8m

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/806,141	FUJISAWA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Magda Cruz	2851	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Preliminary Amendment filed on 08/03/2004.
2. ☒ The allowed claim(s) is/are 1-4.
3. ☒ The drawings filed on 23 March 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)              |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____.   |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date 3/23/04 & 8/3/04 | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                      |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance     |
|   | 9. <input checked="" type="checkbox"/> Other <u>IDS filed on 9/16/04 &amp; 2/15/05</u> . |

## **DETAILED ACTION**

### ***EXAMINER'S AMENDMENT***

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. The application has been amended as follows:
  - a. Substitute the abstract filed on 08/03/2004 with the following:
    - - A light source device includes: a light-emitting tube including a light-emitting portion; a reflector including a neck portion provided with an insertion hole to which the light-emitting tube is inserted, and a reflecting portion integrally formed with the neck portion and having an ellipsoidal curved reflecting surface. The light-emitting tube has a sub-reflection mirror that covers substantially front half of the light-emitting portion. The reflector has a step formed between the peripheral edge of an opening end of the insertion hole near the reflecting surface. The external diameter of the step is larger than the external diameter of the sub-reflection mirror while the external diameter of the step is within the internal diameter of a valid reflection area of the reflector, the internal diameter being defined by a focal position on the front side of the reflector and the outer periphery of the sub-reflection mirror. - -

***Allowable Subject Matter***

3. Claims 1-4 are allowed.
4. The following is an examiner's statement of reasons for allowance:
  - a. Regarding claim 1, the prior art of record neither shows nor suggests a light source device comprising a reflector having a step formed between the peripheral edge of an opening end of the insertion hole near the reflecting surface and the reflecting surface, wherein the external diameter of the step is larger than the external diameter of the sub-reflection mirror while the external diameter of the step is within internal the diameter of a valid reflection area of the reflector, and wherein the step has a part where the reflecting surface is not deposited on the border with the valid reflection area.
  - b. Regarding claim 3, the prior art of record neither shows nor suggests a projector comprising a light source device having a reflector wherein a step is formed between the peripheral edge of an opening end of the insertion hole near the reflecting surface and the reflecting surface, wherein the external diameter of the step is larger than the external diameter of the sub-reflection mirror while the external diameter of the step is within internal the diameter of a valid reflection area of the reflector, and wherein the step has a part where the reflecting surface is not deposited on the border with the valid reflection area.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Johanson (US 2004/0032739 A1) discloses an illumination device having a first parabolic reflector and a second parabolic reflector.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magda Cruz whose telephone number is (571) 272-2114. The examiner can normally be reached on Monday through Thursday 8:00-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Magda Cruz  
Patent Examiner  
June 25, 2005



**JUDY NGUYEN**  
**SUPERVISORY PATENT EXAMINER**